

02 FEB 2005

PCT/JP2002/00821

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION.

(PCT Article 36 and Rule 70)

3) Claus Carrette		CasNatificati	ionefTransmittalofInternational Preliminary			
Applicant's or agent's file reference PH-1503-PCT	FOR FURTHER ACTION	DAMMACO. Troport (
International application No.	International filing date (day/		Priority date (day/month/year)			
PCT/JP02/08212	12 August 2002 (12	.08.02)				
International Patent Classification (IPC) or national classification and IPC G01N 33/53, G01N37/00, C12Q 1/68, C12N 15/09, C12M 1/00, G01N 27/30						
Applicant HITACHI HIGH-TECHNOLOGIES CORPORATION						
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of	sheets, includ	ing this cover s	sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheets.						
3. This report contains indications relating to the following items:						
I Basis of the report	I Basis of the report					
II Priority						
III Non-establishment	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	And I ask of units of invention					
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in	Contain defeats in the international application					
VIII Certain observations on the international application						
Date of submission of the downed	Date	of completion	of this report			
Date of submission of the demand		_				
12 August 2002 (12.	08.02)	06	January 2003 (06.01.2003)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.	Tele	phone No.				

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT PCT/JP02/08212 I. Basis of the report 1. With regard to the elements of the international application:* the international application as originally filed the description: pages , as originally filed pages , filed with the demand pages , filed with the letter of the claims: pages 1-7,9,10,12-14 _, as originally filed pages , as amended (together with any statement under Article 19 pages , filed with the demand pages 8,15-20 _____, filed with the letter of ____11 December 2002 (11.12.2002) the drawings: pages 1-14 , as originally filed pages , filed with the demand _____, filed with the letter of pages the sequence listing part of the description: pages pages _ , as originally filed _____, filed with the demand pages ____, filed with the letter of With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). which is: the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has 4. 🖂 The amendments have resulted in the cancellation of: the description, pages ____ the claims, Nos. _ the drawings, sheets/fig_ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP02/08212

IV. Lack of unity of invention	1 01/31 02/08212
1. In response to the invitation to restrict or pay additional fees the applicant has:	
restricted the claims.	
paid additional fees.	
paid additional fees under protest.	
neither restricted nor paid additional fees.	
solution for paid additional tees.	
This Authority found that the requirement of unity of invention is not complied w not to invite the applicant to restrict or pay additional fees.	ith and chose, according to Rule 68.1,
This Authority considers that the requirement of unity of invention in accordance with F complied with.	Rules 13.1, 13.2 and 13.3 is
not complied with for the following reasons:	
Whereas the inventions of claims 1-7 concern the quantification in a sample based on multiple nucleic acid probes in which the value, the inventions of claims 8-14 are merely inventions concern with multiple probes. This examination finds that no single general shared by these two groups of inventions.	output exceeds a specified
	. ,
onsequently, the following parts of the international application were the subject of interna- n establishing this report:	ational preliminary examination
all parts.	
the parts relating to claims Nos.	
	· ·
PCT/IPEA/409 (Box IV) (July 1998)	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

V Paganal statement		THE ORI	РСТ/JР02/08212	
V. Reasoned statement under Article citations and explanations suppo	e 35(2) with res rting such state	gard to novelty, inventive step or i ement	industrial applicability;	
1. Statement				
Novelty (N)	Claims	1-10, 12	2-20	YES
	Claims		2-20	- NO
Inventive step (IS)	Claims	1-10, 12	2 20	-
	Claims	1-10, 12	3-20	YES
Industrial applicability (IA)	Claims	1 10 10		_ NO
1	Claims	1-10, 12	:-20	YES
				NO -
2. Citations and explanations				
that cDNA such as are contained in a Document 2 [JP 2000-235035] a biochip having n at each spot, and the contained in a spot, and the contained in a correcting for an accorrecting for an accorded correcting for accorded correcting corrections accorded to the correction correction corrections accorded to the correction correction corrections accorded to the correction correction correction corrections accorded to the correction correction correction corrections accorded to the correction	A (Hitachi multiple sporthe measurer (Becton Die f a sample wof biologica additive back rected measurer (Fuii Photo	Software Engineering Co., ots, the determination of the ment of the extent that a san teckinson and Co.) January 3 with specific properties by plat or chemical samples colle kground value present in the sured records to a specific the of Film Co. Ltd.) November	Ltd.) August 29, 2000] de quantity of probes immob mple has been hybridized. 31, 2002] describes the dete plotting on a graph the optic ected at respective points in a measured records, and hreshold value.	erning units escribe pilized ection
	ina, etc., by	a MOSFEI, etc.		
ocument 5 [JP 2001-299346 A solid phase and qua	(Hiroyuki) antifying the	Nanami) October 30, 2001 e DNA.	describes performing PCF	R on a
laims 1-7 None of the above document each time, performing normalitaims 8-20	uzation, and	qualitying nucleic acids.		
None of the above document ith differing hybridization time acleic acid probe surface areas	s describes s or a DNA	or suggests a DNA microar microarray having multipl	rray having nucleic acid pr le probe members with diff	robes fering